

Re: __TIME_MIN/__TIME_MAX

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2003-11/0058.html>

From: Bruce Evans (bde_at_zeta.org.au)

Date: 11/15/03

Date: Sat, 15 Nov 2003 19:17:10 +1100 (EST)

To: Jacques Vidrine <nectar@FreeBSD.org>

On Fri, 14 Nov 2003, Jacques Vidrine wrote:

> Bruce Evans said the following on 11/14/03 6:54 PM:

>

> > I prefer the cast.

>

> Actually, so do I :-) MIN/MAX values won't work for removing some (IMHO

> stupid) warnings emitted by GCC. So this kind of thing OK?

>

> long n;

> time_t t;

> errno = 0;

> n = strtoul(...);

> if (errno == ERANGE || (long)(t = n) != n)

> /* out of range */;

Not quite like that. strtoul() returns an unsigned long whose value may be lost by assigning it to a plain long. Mixtures of signed and unsigned types are tricky to handle as usual. Suppose we make n unsigned long and it has value ULONG_MAX, and time_t is long, then (t = n) == n, but t doesn't actually represent n (casting (t = n) to long or unsigned long doesn't help). So it seems to be necessary to be aware that time_t is signed and either use strtol() initially or check that t >= 0 if n is unsigned long. If time_t is actually signed then we may get a GCC warning for this check...

Bruce

freebsd-arch@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-arch>

To unsubscribe, send any mail to "freebsd-arch-unsubscribe@freebsd.org"